



PATENTS

Model	U.S. patent number(s)	Title
Brush Chippers		
AX17 brush chipper	<u>STANDARD</u> 7044409 7823813 8628034 <u>OPTIONAL</u> 7562837 11014791	Brush chipper and methods of operating same Lower feed stop bar Belt-tensioning apparatus Coordinated control of a winch and a brush chipper Self-raising winch boom and control systems and methods associated therewith
AX19 brush chipper	<u>STANDARD</u> 7044409 7823813 8567706 8628034 <u>OPTIONAL</u> 7562837	Brush chipper and methods of operating same Lower feed stop bar Wood chipper feed roller Belt-tensioning apparatus Coordinated control of a winch and a brush chipper
BC600XL brush chipper	7044409 7543767	Brush chipper and methods of operating same Methods of constructing a mechanical four-position brush chipper feed control bar
BC700XL brush chipper	7044409 7823813 8141802	Brush chipper and methods of operating same Lower feed stop bar Brush chipper
BC900XL brush chipper	7044409 7823813 8141802	Brush chipper and methods of operating same Lower feed stop bar Brush chipper
BC1000XL brush chipper	7044409 7823813 8141802	Brush chipper and methods of operating same Lower feed stop bar Brush chipper

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Model	U.S. patent number(s)	Title
Brush Chippers		
BC1200XL brush chipper	<u>STANDARD</u> 7044409 7823813 8141802 <u>OPTIONAL</u> 7562837	Brush chipper and methods of operating same Lower feed stop bar Brush chipper Coordinated control of a winch and a brush chipper
BC1500 brush chipper	7044409 7823813 8141802 <u>OPTIONAL</u> 7562837 7562837	Brush chipper and methods of operating same Lower feed stop bar Brush chipper Coordinated control of a winch and a brush chipper Coordinated control of a winch and a brush chipper
BC1800XL brush chipper	<u>STANDARD</u> 7044409 7546964 <u>OPTIONAL</u> 7562837	Brush chipper and methods of operating same Brush chipper with improved feed rollers Coordinated control of a winch and a brush chipper
BC2100XL brush chipper	<u>STANDARD</u> 7044409 7823813 8567706 <u>OPTIONAL</u> 7562837	Brush chipper and methods of operating same Lower feed stop bar Wood chipper feed roller Coordinated control of a winch and a brush chipper
WC2300, WC2300XL, WC2300XLT whole tree chippers	7597279 9409310	Brush chipper and methods of operating same Combined feed roller and conveyor sprocket/pulley for a tree chipper
WC2500XL, WC2500TX whole tree chippers	7597279 9409310	Brush chipper and methods of operating same Combined feed roller and conveyor sprocket/pulley for a tree chipper

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Model	U.S. patent number(s)	Title
Core Saw		
CS418 core saw	10876366	Core saw and support frame structure

Model	U.S. patent number(s)	Title
Horizontal Grinders		
HG4000G2 horizontal grinder	<u>STANDARD</u> 9168535 10737275	Adjustable anvil for comminuting apparatus Mill box for a horizontal grinder
	<u>OPTIONAL</u> 9370776 9375723 9675976	Mounting block for attaching a reducing element to a rotary drum Cutter assembly and adjustable cutter for use in comminuting apparatus Hammer support for rotary tool
HG6800TX horizontal grinder	<u>STANDARD</u> 9168535 10737275	Adjustable anvil for comminuting apparatus Mill box for a horizontal grinder
	<u>OPTIONAL</u> 9370776 9375723 9675976	Mounting block for attaching a reducing element to a rotary drum Cutter assembly and adjustable cutter for use in comminuting apparatus Hammer support for rotary tool

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Model	U.S. patent number(s)	Title
Forage Models		
504 Pro G3 baler	10827685	Hydraulic brake for wrap material
604 Pro G3 baler	10827685	Hydraulic brake for wrap material
604R baler	<u>OPTIONAL</u> 10827685	Hydraulic brake for wrap material
ZR5-1200 self-propelled baler	USD794086	Self-propelled agricultural machine
	USD836678	Self-propelled agricultural machine
	10850723	Self-propelled vehicles having a steering position sensor
	10888043	Self-propelled baling vehicle
	10953918	Self-propelled vehicles including a differential system
	10980183	Self-propelled vehicles with extendable devices

Model	U.S. patent number(s)	Title
Mini Skid Steers		
CTX50 mini skid steer	7549500	Apparatus for control of a mobile machine
	9321386	Low-profile compact tool carriers
	9975750	Low-profile compact tool carriers
	10202266	Low-profile compact tool carriers
	10597843	Utility loader with high-lift loader arms and unifying hand grip for dual-traction control levers
	11111645	Utility loader with high-lift loader arms and unifying hand grip for dual-traction control levers
	11255068	Utility loader with high-lift loader arms and unifying hand grip for dual-traction control levers

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Model	U.S. patent number(s)	Title
Mini Skid Steers		
CTX100 mini skid steer	7549500 9321386 9975750 10202266 10597843 11111645 11255068	Apparatus for control of a mobile machine Low-profile compact tool carriers Low-profile compact tool carriers Low-profile compact tool carriers Utility loader with high lift loader arms and unifying hand grip for dual-traction controls levers Utility loader with high lift loader arms and unifying hand grip for dual-traction controls levers Utility loader with high lift loader arms and unifying hand grip for dual-traction controls levers
CTX160 mini skid steer	7549500 10202266 10597843 11111645 11255068	Apparatus for control of a mobile machine Low-profile compact tool carriers Utility loader with high lift loader arms and unifying hand grip for dual-traction control levers Utility loader with high lift loader arms and unifying hand grip for dual-traction control levers Utility loader with high lift loader arms and unifying hand grip for dual-traction control levers
S450TX mini skid steer	7549500	Apparatus for control of a mobile machine
S725TX mini skid steer	7549500	Apparatus for control of a mobile machine
S800TX mini skid steer	7549500	Apparatus for control of a mobile machine
S925TX mini skid steer	7549500	Apparatus for control of a mobile machine

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Model	U.S. patent number(s)	Title
Stump Cutters		
SC552 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
	10231389	Stump cutter
SC852 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
	10231389	Stump cutter
SC70TX stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
SC802 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
SC30TX stump cutter	9462759	Stump grinder with laterally offset grinding arm operated by single joystick
	10117388	Stump grinder with laterally offset grinding arm operated by single joystick
	10292341	Stump grinder with laterally offset grinding arm operated by single joystick
	10993389	Stump grinder with laterally offset grinding arm operated by single joystick
	11109542	Stump grinder with laterally offset grinding arm operated by single joystick
SC382 stump cutter	9462759	Stump grinder with laterally offset grinding arm operated by single joystick
	10117388	Stump grinder with laterally offset grinding arm operated by single joystick
	10292341	Stump grinder with laterally offset grinding arm operated by single joystick
	10993389	Stump grinder with laterally offset grinding arm operated by single joystick

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Model	U.S. patent number(s)	Title
Tooling and Accessories		
QuickFire® connection system	8991490	Tapered thread configuration with improved durability
	9016366	Tapered thread configuration with improved durability
	9605491	Tapered thread configuration with improved durability
	10227832	Tapered thread configuration with improved durability
Armor drilling system	8939237	Underground drilling apparatus
Yellow Jacket™ cutter system	8020591	Indexable stump cutter tooth
	8522843	Indexable stump cutter tooth
	9585313	Indexable stump cutter tooth
Vermeer cutter system	10926268	Cutter mounting systems and cutters for the same
PG6/PG5 pullback grapple	10900294	Pullback system for drilling tool

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Model	U.S. patent number(s)	Title
Trenchers – Utility Installation		
RTX450 ride-on tractor	8430188 8801115 10017216 D587727	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Quad-track trencher
RTX550 ride-on tractor	8245800 8430188 8801115 9352776 10017216 D587727	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Quad-track trencher
RTX750 ride-on tractor	8245800 8430188 8827013 8801115 9079614 9180910 9352776 10017216 D587727	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Quad-track trencher

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Model	U.S. patent number(s)	Title
Trenchers – Utility Installation		
RTX1250 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216 D587727	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Quad-track trencher
RTX1250i2 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle
XTS1250i2 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle

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Model	U.S. patent number(s)	Title
Trommel Screens		
TR6450 trommel screen	10118197	Automatic folding and deploying deflectors for conveyor

Model	U.S. patent number(s)	Title
Vacuum Excavators		
XR2 vacuum excavator	10655300	Cyclonic separation systems and hydro-excavation vacuum apparatus incorporating same
ECO75 vacuum excavator	7837050	Collection tank
VX50 vacuum excavator	7837050	Collection tank
VX75 vacuum excavator	7837050	Collection tank

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